



Army Net Zero Conference

18-20 January 2012

Chicago, Illinois

Day 1 – Wednesday, 18 January 2012

Plenary Session – Continental Ballroom

08:00 – 11:35 Opening Session

08:00 Welcome, administrative remarks, training intent – Ms. Kristine Kingery, ODASA(E&S)

08:15 Welcome – Mr. Ronald "Ron" Jarnagin, ASHRAE President

08:30 Opening remarks and expected outcomes – HON Katherine Hammack, ASA(IE&E)

09:00 Opening remarks –MG Al Aycock – Director of ACSIM Operations
Directorate, ACSIM

09:30 Break

10:00 Guest Speaker Introductions – Ms. Kristine Kingery, ODASA(E&S)

10:05 Representative from the City of Chicago – Ms. Karen Weigert, Chief
Sustainability Officer for the City of Chicago

10:35 Representative from Academia – Ms. Ilsa Flanagan, Director, Office of
Sustainability University of Chicago

11:05 Representative from Industry – Mr. Tony Spata, Director of Engineering
Operations and Design, Hyatt

11:35 – 13:00 Lunch – Room TBD

Break-Out Tracks:

Track	Location
Energy	Continental A
Water	Continental B
Waste	Continental C

13:00 – 17:30 Track Technical Session and Installation Net Zero Updates
(Please see next pages for break-out track schedules.)

17:30 Track Ends



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Day 1 – Energy Track

Continental A

13:00	Welcome & Introductions (Paul Volkman)
13:10	Track Technical Session - Theory, Modeling and Implementation of Energy Master Plans (each: 30 min + 10 min Q&A) 13:10 International Energy Agency Annex 51, A Roadmap to Low Energy Communities - Jacques Kimman, Netherlands 13:50 Net Zero Energy Communities - Concepts, Methods, Implementations - Fred Kerschberger RK-Stuttgart, Germany 14:30 Energy Master Planning – Case Studies (Arlington, VA and New Holland, MI) - Peter Graforth
15:10	Break
15:30	Installation Presentations (each: 20 min + 5 min Q&A) 15:30 Fort Carson 15:55 Fort Bliss 16:20 West Point 16:50 Oregon National Guard
17:15	Technical Presentation Central Solar Hot Water Systems – New Army Design Guide, Alexander Zhivov
17:30	End of Track



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Day 1 – Water Track

Continental B

13:00	Welcome & Introductions (Marc Kodack)
13:10	Track Plenary Session (each: 20 min + 10 min Q&A) 13:10 Energy-Water Nexus - Mike Hightower, Sandia National Laboratory 13:40 Water Security at Joint-Base Lewis McChord - Elizabeth Keysar, CTC 14:10 Water Balance/Road Maps - Kate McMordie and Brian Boyd, Pacific Northwest National Laboratory
15:10	Break
15:30	Installation Presentations (each: 20 min + 10 min Q&A) 15:30 Aberdeen Proving Ground 16:00 Joint Base Lewis McChord 16:30 Fort Buchanan 17:00 Camp Rilea
17:30	End of Track



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Day 1 – Waste Track

Continental C

13:00	Welcome & Introductions (Wanda Johnsen)
13:15	Track Plenary Session
13:15	Defining 'Diversion' (OSD & Army goal definitions) – Cecile Holloway (OACSIM), Robert Durham (OACSIM) & Bob Luther (ODASA(ESOH))
13:45	Building Deconstruction Successes & Challenges – Jeanette Fiess (USACE Northwestern Division)
14:25	Avoiding Food Waste – Panel Discussion: Mark Leeper (DeCA) & Steve Cosper (CERL)
15:10	Break
15:30	Installation Presentations (each: 20 min + 10 min Q&A)
15:30	Fort Bliss
16:00	Fort Carson
16:30	Fort Detrick
17:00	Fort Hood
17:30	End of Track



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Day 2 – Thursday, 19 January 2012

Break-Out Tracks:

Track	Location
Energy	Continental A
Water	Continental B
Waste	Continental C

08:00 – 12:15 Track Technical Session and Installation Net Zero Updates
(Please see next pages for break-out track schedules.)

Times Vary Lunch – Room TBD

12:15-13:00 Energy Track Lunch

11:30-12:45 Water Track Lunch

11:30-12:45 Waste Track Lunch

13:00 – 17:30 Track Specific Technical Sessions (continued)



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Day 2 – Energy Track

Continental A

08:00	Installation Presentations (each: 20 min + 5 min Q&A) 08:00 Fort Hunter-Liggett 08:25 Fort Detrick 08:50 Kwajalein Atoll 09:15 Parks Reserve Forces Training Area 09:40 Sierra AD
10:05	Break
10:30	Track Technical Session – High Efficiency Design and Retrofit Strategies 10:30 ASHRAE Standard 100 “Energy Efficiency for Existing Buildings” - Richard D Hermans, McQuay International, ASHRAE Standard 100 Chairman 11:00 Richardsville Elementary School, Bowling Green, KY – The First Net Zero Public School in America - Ken Seibert and Kenny Stanfield
12:15	Lunch
13:00	Track Technical Session – District Heating and Co-Generation 13:15 Combat Aviation Brigade Net Zero Approach – Hal Alguire/GEF/ERDC – Ft Carson, CO 13:55 Evaluating fuels and heating system alternatives for District Heating Systems - Charles Lederer and Lon Fiedler, TKDA, St. Paul, MN 14:35 St. Paul District Energy System (Biomass CHP + Solar Water Heating) - Kenneth Smith, Ever-Green Energy/ St Paul District Energy Company, MN
15:15	Break 15:30 CHP optimization tool with Linkoping University, Sweden case study - Bahram Moshfegh 16:10 Biomass Gasification: Application in Thermal District Energy and Combined Heat Power Systems - John Shaw, Conix/Nexterra 16:50 Low Energy Concept for Industrial Complexes - Klaus Menge, Frenger Systemen
17:30	End of Track



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Day 2 – Water Track

Continental B

08:00	Installation Presentations (each: 20 min + 10 min Q&A) 08:00 Fort Riley 08:30 Tobyhanna Army Depot
09:00	Break 09:15 Fort Bliss 09:45 Fort Carson
10:15	Break
10:30	Track Technical Session (each: 20 min + 10 min Q&A) 10:30 Construction Engineer Research Laboratory (CERL), Army's Developing Tools for Net Zero Water Planning - Laura Curvey 11:00 Water Reuse - Richard Scholze, CERL
11:30	Lunch
12:45	Track Technical Session 12:45 Saving Water and Energy at Army Installations - Elisabeth Jenicek, CERL 13:15 Energy-Water Nexus - Elizabeth Keysar, CTC
13:45	Break 14:00 Innovative Water Technologies - Paul Bassett, WaterSavers
15:00	Break 15:15 Intro - Gillespie-Marthaler and Jennifer Orme-Zavaleta, EPA 15:25 Green Infrastructure – Optimized Approaches for Managing Wet Weather Flows - Alice Gilliland, EPA 16:00 Water Efficiency and Resource Recovery - Tools, Technologies & Approaches - Jay Garland, EPA 16:25 Impact of Installing Novel Technologies on Existing Infrastructure - Tom Speth, EPA 17:00 Water and Energy Security – Tools, Technologies & Approaches - Kim Fox, EPA 17:25 Q/A
18:00	End of Track



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Day 2 – Waste Track

Continental C

08:00	Installation Presentations (each: 20 min + 10 min Q&A) 08:00 Fort Hunter Liggett 08:30 Fort Polk 09:00 Break 09:15 Joint Base Lewis-McChord 09:45 U.S. Army Garrison Grafenwoehr 10:15 Break
10:30	Track Technical Session 10:30 Ford Motor Company Waste Management – Steve Myers (Senior Environmental Engineer, Corporate Environmental Quality Office, Dearborn, MI) and Rhonda Turner (Designated Environmental Representative, Chicago Assembly Plant)
11:30	Lunch
12:45	Track Technical Session 12:45 Waste-to-Energy (WTE) Panel Discussion – Jerry Davis (NREL), Steve Cosper (CERL), Annette Stumpf (CERL) & Alex Lackner (CTC) 14:15 Green Procurement: A Vital Tool in Waste Reduction – Steve Jaren (ASA(ALT)) & Beth Martin (USAPHC) 15:00 Break 15:20 Greening MEDCOM Facilities & Operations – Mike Eck (MEDCOM) 15:50 AAFES Sustainability & Waste Management Initiatives – Mel Hendricks (AAFES) 16:20 Material Flow Survey Update & Net Zero Waste Roadmaps – Alex Lackner (CTC) 17:00 Installation Feedback / Observations & Next Steps
17:30	End of Track



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Day 3 – 20 January 2012

Plenary Session – Continental Ballroom

08:00 – 08:15 Day 3 Kickoff

08:00 Mr. Richard Kidd, DASA(E&S)

08:15 – 09:15 Track wrap-up and summaries

- Energy Track Feedback – Mr. Paul Volkman, ODASA(E&S)
- Waste Track Feedback – Ms. Wanda Johnsen, ODASA(E&S)
- Water Track Feedback – Dr. Marc Kodack, ODASA(E&S)
- Track wrap-up – Ms. Kristine Kingery, ODASA(E&S)

09:15 – 12:00 Net Zero Challenges and Opportunities

9:15 Integrative Energy, Water, and Waste Community Design: From Vision and Concept to Practical Implementation – Mr. John Boecker, 7 Group,

10:00 Break

10:30 Role of Modeling in NZI Planning Option – Dr. Mike Case, ERDC-CERL

11:00 New Strategies and Partners – Mr. Terry Tamminen, SGAdvisors

11:30 Next Steps/Future Communications – Ms. Kristine Kingery, ODASA(E&S)

11:45 – 12:00 Closing Remarks – HON Katherine Hammack, ASA(IE&E)